

Serial No. 10/764,319

- 2 -

51912sh

SPECIFICATION AMENDMENTS

Page 7, lines 7-16:

Figure 3 is a repeat of Figure 1 with circular call-outs relating to the interleaved probe data and, in this switch configuration, neon calibration data. Figure 2 depicts how the data and neon channels are arranged on a single grating CCD image plane. To accommodate 4 data channels and 5 calibration channels, a nine-fiber MT is required; additional data channels may be accommodated with a 12-fiber MT, for example. To improve range or resolution, a multiplexing arrangement is preferred of the types described in U.S. Patent Nos. 5,442,439 or 5,559,597 ~~5,559,557~~, the content of both being incorporated herein by reference. However, with the configuration shown in Figure 2, there is not enough area on the CCD to multiplex without shifting binning between data and calibration acquisitions.